

PATENT ABSTRACTS OF JAPAN

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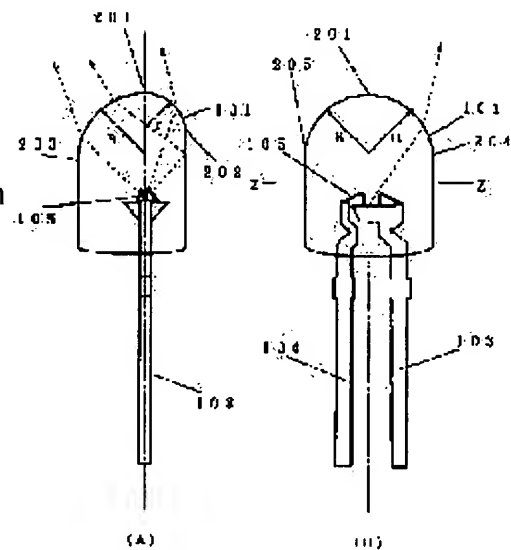
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(54) LIGHT EMITTING DIODE, AND SIGNALING

(57)Abstract:

PROBLEM TO BE SOLVED: To make it possible to reduce light at a given angle from a light emission observing side without a bad influence and increase the luminance of light at a different angel, as an optical signal with respect to a light emitting element sealed with a transparent lens-shaped molding member.

SOLUTION: A light emitting diode includes at least two lead terminals 103 and 104, a light emitting element connected electrically, and a transparent molding member 101 molding the light emitting element. The transparent molding member 101 has a top 201 as a projected optical lens. In this case, first to fourth radii of curvature including an optical axis crossing the tip 201 of the transparent molding member 101 having a relation such that the first radius of curvature from the tip 201 to an end 202 is larger than the third radius of curvature from the tip 201 to an end 204, the fourth radius of curvature from the tip 201 to an end 205 is equal to or larger than the second radius of curvature from the tip 201 to an end 203.



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